SEOUENCE LISTING

<110> Chen, Xiaojiang Holers, V. Michael <120> THREE-DIMENSIONAL STRUCTURE OF COMPLEMENT RECEPTOR TYPE 2 AND USES THEREOF <130> 2848-43 <160> 9 <170> PatentIn version 3.0 <210> 1 <211> 1033 <212> PRT <213> Homo sapiens <400> 1 Met Gly Ala Ala Gly Leu Leu Gly Val Phe Leu Ala Leu Val Ala Pro 5 Gly Val Leu Gly Ile Ser Cys Gly Ser Pro Pro Pro Ile Leu Asn Gly Arg Ile Ser Tyr Tyr Ser Thr Pro Ile Ala Val Gly Thr Val Ile Arg 40 Tyr Ser Cys Ser Gly Thr Phe Arg Leu Ile Gly Glu Lys Ser Leu Leu Cys Ile Thr Lys Asp Lys Val Asp Gly Thr Trp Asp Lys Pro Ala Pro Lys Cys Glu Tyr Phe Asn Lys Tyr Ser Ser Cys Pro Glu Pro Ile Val 90 Pro Gly Gly Tyr Lys Ile Arg Gly Ser Thr Pro Tyr Arg His Gly Asp Ser Val Thr Phe Ala Cys Lys Thr Asn Phe Ser Met Asn Gly Asn Lys 120 Ser Val Trp Cys Gln Ala Asn Asn Met Trp Gly Pro Thr Arg Leu Pro 130 135 Thr Cys Val Ser Val Phe Pro Leu Glu Cys Pro Ala Leu Pro Met Ile 155 150 His Asn Gly His His Thr Ser Glu Asn Val Gly Ser Ile Ala Pro Gly Leu Ser Val Thr Tyr Ser Cys Glu Ser Gly Tyr Leu Leu Val Gly Glu

185

Lys Ile Ile Asn Cys Leu Ser Ser Gly Lys Trp Ser Ala Val Pro Pro Thr Cys Glu Glu Ala Arg Cys Lys Ser Leu Gly Arg Phe Pro Asn Gly Lys Val Lys Glu Pro Pro Ile Leu Arg Val Gly Val Thr Ala Asn Phe 230 235 Phe Cys Asp Glu Gly Tyr Arg Leu Gln Gly Pro Pro Ser Ser Arg Cys Val Ile Ala Gly Gln Gly Val Ala Trp Thr Lys Met Pro Val Cys Glu Glu Ile Phe Cys Pro Ser Pro Pro Pro Ile Leu Asn Gly Arg His Ile 280 Gly Asn Ser Leu Ala Asn Val Ser Tyr Gly Ser Ile Val Thr Tyr Thr Cys Asp Pro Asp Pro Glu Glu Gly Val Asn Phe Ile Leu Ile Gly Glu 310 315 Ser Thr Leu Arg Cys Thr Val Asp Ser Gln Lys Thr Gly Thr Trp Ser Gly Pro Ala Pro Arg Cys Glu Leu Ser Thr Ser Ala Val Gln Cys Pro 345 His Pro Gln Ile Leu Arg Gly Arg Met Val Ser Gly Gln Lys Asp Arg 360 355 Tyr Thr Tyr Asn Asp Thr Val Ile Phe Ala Cys Met Phe Gly Phe Thr Leu Lys Gly Ser Lys Gln Ile Arg Cys Asn Ala Gln Gly Thr Trp Glu 390 395 Pro Ser Ala Pro Val Cys Glu Lys Glu Cys Gln Ala Pro Pro Asn Ile Leu Asn Gly Gln Lys Glu Asp Arg His Met Val Arg Phe Asp Pro Gly 425 Thr Ser lie Lys Tyr Ser Cys Ash Pro Gly Tyl Val Leu Val Gly Glu 435 Glu Ser Ile Gln Cys Thr Ser Glu Gly Val Trp Thr Pro Pro Val Pro Gln Cys Lys Val Ala Ala Cys Glu Ala Thr Gly Arg Gln Leu Leu Thr 470 475

Lys Pro Gln His Gln Phe Val Arg Pro Asp Val Asn Ser Ser Cys Gly Glu Gly Tyr Lys Leu Ser Gly Ser Val Tyr Gln Glu Cys Gln Gly Thr 500 505 Ile Pro Trp Phe Met Glu Ile Arg Leu Cys Lys Glu Ile Thr Cys Pro Pro Pro Pro Val Ile Tyr Asn Gly Ala His Thr Gly Ser Ser Leu Glu Asp Phe Pro Tyr Gly Thr Thr Val Thr Tyr Thr Cys Asn Pro Gly Pro 550 545 555 Glu Arg Gly Val Glu Phe Ser Leu Ile Gly Glu Ser Thr Ile Arg Cys Thr Ser Asn Asp Gln Glu Arg Gly Thr Trp Ser Gly Pro Ala Pro Leu 585 Cys Lys Leu Ser Leu Leu Ala Val Gln Cys Ser His Val His Ile Ala 600 595 Asn Gly Tyr Lys Ile Ser Gly Lys Glu Ala Pro Tyr Phe Tyr Asn Asp 615 Thr Val Thr Phe Lys Cys Tyr Ser Gly Phe Thr Leu Lys Gly Ser Ser Gln Ile Arg Cys Lys Ala Asp Asn Thr Trp Asp Pro Glu Ile Pro Val 650 Cys Glu Lys Glu Thr Cys Gln His Val Arg Gln Ser Leu Gln Glu Leu 660 Pro Ala Glv Ser Arg Val Glu Leu Val Asn Thr Ser Cys Gln Asp Gly Tyr Gln Leu Thr Gly His Ala Tyr Gln Met Cys Gln Asp Ala Glu Asn Gly Ile Trp Phe Lys Lys Ile Pro Leu Cys Lys Val Ile His Cys His 710 705 Pro Pro Pro Val Ile Val Asm Gly Lys His Thr Gly Met Met Ala Glu 730 Asn Phe Leu Tyr Gly Asn Glu Val Ser Tyr Glu Cys Asp Gln Gly Phe Tyr Leu Leu Gly Glu Lys Lys Leu Gln Cys Arg Ser Asp Ser Lys Gly His Gly Ser Trp Ser Gly Pro Ser Pro Gln Cys Leu Arg Ser Pro Pro

770 775 780 Val Thr Arg Cys Pro Asn Pro Glu Val Lys His Gly Tyr Lys Leu Asn 795 790 Lvs Thr His Ser Ala Tyr Ser His Asn Asp Ile Val Tyr Val Asp Cys 810 Asn Pro Gly Phe Ile Met Asn Gly Ser Arg Val Ile Arg Cys His Thr Asp Asn Thr Trp Val Pro Gly Val Pro Thr Cys Met Lys Lys Ala Phe 840 Ile Gly Cys Pro Pro Pro Lys Thr Pro Asn Gly Asn His Thr Gly 855 Gly Asn Ile Ala Arg Phe Ser Pro Gly Met Ser Ile Leu Tyr Ser Cys 875 Asp Gln Gly Tyr Leu Leu Val Gly Glu Ala Leu Leu Cys Thr His 890 Glu Gly Thr Trp Ser Gln Pro Ala Pro His Cys Lys Glu Val Asn Cys 900 905 Ser Ser Pro Ala Asp Met Asp Gly Ile Gln Lys Gly Leu Glu Pro Arg 920 Lys Met Tyr Gln Tyr Gly Ala Val Thr Leu Glu Cys Glu Asp Gly Tyr Met Leu Glu Gly Ser Pro Gln Ser Gln Cys Gln Ser Asp His Gln 945 955 Trp Asn Pro Pro Leu Ala Val Cys Arg Ser Arg Ser Leu Ala Pro Val Leu Cys Gly Ile Ala Ala Gly Leu Ile Leu Leu Thr Phe Leu Ile Val 985 Ile Thr Leu Tyr Val Ile Ser Lys His Arg Glu Arg Asn Tyr Tyr Thr 1000 Asp Thr Ser Gln Lys Glu Ala Phe His Leu Glu Ala Arg Glu Val 1010 Tyr Ser Val Asp Pro Tyr Asn Pro Ala Ser 1025 1030 <210> 2

<211> 60 <212> PRT

<213> Homo sapiens

<400> 2

Cys Gly Ser Pro Pro Pro Ile Leu Asn Gly Arg Ile Ser Tyr Tyr Ser
1 5 10 15

Thr Pro Ile Ala Val Gly Thr Val Ile Arg Tyr Ser Cys Ser Gly Thr 20 25 30

Phe Arg Leu Ile Gly Glu Lys Ser Leu Leu Cys Ile Thr Lys Asp Lys 35 40 45

Val Asp Gly Thr Trp Asp Lys Pro Ala Pro Lys Cys 50 55 60

<210> 3

<211> 56

<212> PRT

<213> Homo sapiens

< 100 > 3

Cys Pro Glu Pro Ile Val Pro Gly Gly Tyr Lys Ile Arg Gly Ser Thr
1 5 10 15

Pro Tyr Arg His Gly Asp Ser Val Thr Phe Ala Cys Lys Thr Asn Phe 20 25 30

Ser Met Asn Gly Asn Lys Ser Val Trp Cys Gln Ala Asn Asn Met Trp 35 40 45

Gly Pro Thr Arg Leu Pro Thr Cys
50 55

<210> 4

<211> 134

<212> PRT

<213> Homo sapiens

< 400> 4

Gly Ile Ser Cys Gly Ser Pro Pro Pro Ile Leu Asn Gly Arg Ile Ser 1 5 10 15

Tyr Tyr Ser Thr Pro Ile Ala Val Gly Thr Val Ile Arg Tyr Ser Cys 20 25 30

Ser Gly Thr Phe Arg Leu IIe Gly Glu Lys Ser Leu Leu Cys Ile Thr 35 40 45

Lys Asp Lys Val Asp Gly Thr Trp Asp Lys Pro Ala Pro Lys Cys Glu 50 55 60

Tyr Phe Asn Lys Tyr Ser Ser Cys Pro Glu Pro Ile Val Pro Gly Gly 65 70 75 80

Tyr Lys Ile Arg Gly Ser Thr Pro Tyr Arg His Gly Asp Ser Val Thr 85 90 95

Phe Ala Cys Lys Thr Asn Phe Ser Met Asn Gly Asn Lys Ser Val Trp \$100\$ \$105\$ \$110

Cys Gln Ala Asn Asn Met Trp Gly Pro Thr Arg Leu Pro Thr Cys Val 115 120 125

Ser Val Phe Pro Leu Glu 130

<210> 5

<211> 1025

<212> PRT

<213> Mus musculus

<400> 5

Met Leu Thr Trp Phe Leu Phe Tyr Phe Ser Glu Ile Ser Cys Asp Pro 1 5 10 15

Pro Pro Glu Val Lys Asn Ala Arg Lys Pro Tyr Tyr Ser Leu Pro Ile 20 25 30

Val Pro Gly Thr Val Leu Arg Tyr Thr Cys Ser Pro Ser Tyr Arg Leu 35 40 45

Ile Gly Glu Lys Ala Ile Phe Cys Ile Ser Glu Asn Gln Val His Ala 50 55 60

Thr Trp Asp Lys Ala Pro Pro Ile Cys Glu Ser Val Asn Lys Thr Ile 65 70 75 80

Ser Cys Ser Asp Pro Ile Val Pro Gly Gly Phe Met Asn Lys Gly Ser 85 90 95

Lys Ala Pro Phe Arg His Gly Asp Ser Val Thr Phe Thr Cys Lys Ala 100 105 110

Asn Phe Thr Met Lys Gly Ser Lys Thr Val Trp Cys Gln Ala Asn Glu 115 120 125

Met Trp Gly Pro Thr Ala Leu Pro Val Cys Glu Ser Asp Phe Pro Leu 130 135 140

Giu Cys Pro Ser Leu Pro Thr The His Asn Gly His His Thr Gly Gln 145 150 155 160

His Val Asp Gln Phe Val Ala Gly Leu Ser Val Thr Tyr Ser Cys Glu 165 170 175

Pro Gly Tyr Leu Leu Thr Gly Lys Lys Thr Ile Lys Cys Leu Ser Ser 180 185 190 Gly Asp Trp Asp Gly Val Ile Pro Thr Cys Lys Glu Ala Gln Cys Glu His Pro Gly Lys Phe Pro Asn Gly Gln Val Lys Glu Pro Leu Ser Leu 215 220 3ln Val Gly Thr Thr Val Tyr Phe Ser Cys Asn Glu Gly Tyr Gln Leu 230 3ln Gly Gln Pro Ser Ser Gln Cys Val Ile Val Glu Gln Lys Ala Ile 250 Trp Thr Lys Lys Pro Val Cys Lys Glu Ile Leu Cys Pro Pro Pro 260 Pro Val Arg Asn Gly Ser His Thr Gly Ser Phe Ser Glu Asn Val Pro Tyr Gly Ser Thr Val Thr Tyr Thr Cys Asp Pro Ser Pro Glu Lys Gly 295 Val Ser Phe Thr Leu Ile Gly Glu Lys Thr Ile Asn Cys Thr Thr Gly 310 315 Ser Gin Lys Thr Gly Ile Trp Ser Gly Pro Ala Pro Tyr Cys Val Leu 330 Ser Thr Ser Ala Val Leu Cys Leu Gln Pro Lys Ile Lys Arg Gly Gln Ile Leu Ser Ile Leu Lys Asp Ser Tyr Ser Tyr Asn Asp Thr Val Ala Phe Ser Cys Glu Pro Gly Phe Thr Leu Lys Gly Asn Arg Ser Ile Arg 370 375 Cys Asn Ala His Cly Thr Trp Glu Pro Pro Val Pro Val Cys Glu Lys 385 Gly Cys Gln Ala Pro Pro Lys Ile Ile Asn Gly Gln Lys Glu Asp Ser 410 Tyr Leu Leu Asn Phe Asp Pro Gly Thr Ser Ile Arg Tyr Ser Cys Asp 420 425 Pro Gly Tyr Leu Beu Val Gly Glu Asp Thr Ile His Cys Thr Pro Glu 410 Gly Lys Trp Thr Pro Ile Thr Pro Gln Cys Thr Val Ala Glu Cys Lys 450 Pro Val Gly Pro His Leu Phe Lys Arg Pro Gln Asn Gln Phe Ile Arg Thr Ala Val Asn Ser Ser Cys Asp Glu Gly Phe Gln Leu Ser Glu Ser

485 490 495 Ala Tyr Gln Leu Cys Gln Gly Thr Ile Pro Trp Phe Ile Glu Ile Arg 505 Leu Cys Lys Glu Ile Thr Cys Pro Pro Pro Pro Val Ile His Asn Gly 520 Thr His Thr Trp Ser Ser Ser Glu Asp Val Pro Tyr Gly Thr Val Val Thr Tyr Met Cys Tyr Pro Gly Pro Glu Glu Gly Val Lys Phe Lys Leu Ile Gly Glu Gln Thr Ile His Cys Thr Ser Asp Ser Arg Gly Arg Gly 570 Ser Trp Ser Ser Pro Ala Pro Leu Cys Lys Leu Ser Leu Pro Ala Val Gln Cys Thr Asp Val His Val Glu Asn Gly Val Lys Leu Thr Asp Asn 600 Lys Ala Pro Tyr Phe Tyr Asn Asp Ser Val Met Phe Lys Cys Asp Asp 615 Gly Tyr Ile Leu Ser Gly Ser Ser Gln Ile Arg Cys Lys Ala Asn Asn 630 Thr Trp Asp Pro Glu Lys Pro Leu Cys Lys Lys Glu Gly Cys Glu Pro 645 Met Arg Val His Gly Leu Pro Asp Asp Ser His Ile Lys Leu Val Lys Arg Thr Cys Gln Asn Gly Tyr Gln Leu Thr Gly Tyr Thr Tyr Glu Lys 675 680 Cys Gin Asn Ala Glu Asn Gly Thr Trp Phe Lys Lys Ile Glu Val Cys Thr Val Ile Leu Cys Gln Pro Pro Pro Lys Ile Ala Asn Gly Gly His Thr Gly Met Met Ala Lys His Phe Leu Tyr Gly Asn Glu Val Ser Tyr 725 Glo Cys Asp Clu Gly Phe Tyr Leu Leu Gly Glu Lys Ser Leu Gln Cys Val Asn Asp Ser Lys Gly His Gly Ser Trp Ser Gly Pro Pro Gln Cys Leu Gln Ser Ser Pro Leu Thr His Cys Pro Asp Pro Glu Val Lys 775 770

His Gly Tyr Lys Leu Asn Lys Thr His Ser Ala Phe Ser His Asn Asp 790 Ile Val His Phe Val Cys Asn Gln Gly Phe Ile Met Asn Gly Ser His 810 805 Leu Ile Arq Cys His Thr Asn Asn Thr Trp Leu Pro Gly Val Pro Thr 825 Cys Ile Arg Lys Ala Ser Leu Gly Cys Gln Ser Pro Ser Thr Ile Pro 835 Asn Gly Asn His Thr Gly Gly Ser Ile Ala Arg Phe Pro Pro Gly Met 855 Ser Val Met Tyr Ser Cys Tyr Gln Gly Phe Leu Met Ala Gly Glu Ala 870 875 Arg Leu Ile Cys Thr His Glu Gly Thr Trp Ser Gln Pro Pro Pro Phe 890 Cys Lys Glu Val Asn Cys Ser Phe Pro Glu Asp Thr Asn Gly Ile Gln 905 Lys Gly Phe Gln Pro Gly Lys Thr Tyr Arg Phe Gly Ala Thr Val Thr 915 920 Leu Glu Cys Glu Asp Gly Tyr Thr Leu Glu Gly Ser Pro Gln Ser Gln 935 Cys Gln Asp Asp Ser Gln Trp Asn Pro Pro Leu Ala Leu Cys Lys Tyr 945 Arg Arg Trp Ser Thr Ile Pro Leu Ile Cys Gly Ile Ser Val Gly Ser

Ala Leu Ile Ile Leu Met Ser Val Gly Phe Cys Met Ile Leu Lys His
980 985 990

970

Arg Glu Ser Asn Tyr Tyr Thr Lys Thr Arg Pro Lys Glu Gly Ala Leu 995 1000 1005

His Leu Glu Thr Arg Glu Val Tyr Ser Ile Asp Pro Tyr Asn Pro 1010 1015 1020

A.a Ser 1025

<110> 6 <211> 135 <212> PRT

<213> Mus musculus

965

<400> 6

Glu Ile Ser Cys Asp Pro Pro Pro Glu Val Lys Asn Ala Arg Lys Pro 1 5 10 15

Tyr Tyr Ser Leu Pro Ile Val Pro Gly Thr Val Leu Arg Tyr Thr Cys 20 25 30

Ser Pro Ser Tyr Arg Leu Ile Gly Glu Lys Ala Ile Phe Cys Ile Ser 35 40 45

Glu Asn Gln Val His Ala Thr Trp Asp Lys Ala Pro Pro Ile Cys Glu 50 55 60

Ser Val Asn Lys Thr Ile Ser Cys Ser Asp Pro Ile Val Pro Gly Gly 70 75 80

Phe Met Asn Lys Gly Ser Lys Ala Pro Phe Arg His Gly Asp Ser Val 85 90 95

Thr Phe Thr Cys Lys Ala Asn Phe Thr Met Lys Gly Ser Lys Thr Val

Trp Cys Gln Ala Asn Glu Met Trp Gly Pro Thr Ala Leu Pro Val Cys
115 120 125

Glu Ser Asp Phe Pro Leu Glu 130 135

<210> 7

<211> 310

<212> PRT

<213> Homo sapiens

<400> 7

Met Leu Asp Ala Glu Arg Leu Lys His Leu Ile Val Thr Pro Ser Gly
1 5 10 15

Ala Gly Glu Gln Asn Met Ile Gly Met Thr Pro Thr Val Ile Ala Val 20 25 30

His Tyr Leu Asp Glu Thr Glu Gln Trp Glu Lys Phe Gly Leu Glu Lys
35 40 45

Arg Gln Gly Ala Leu Glu Leu Ile Lys Lys Gly Tyr Thr Gln Gln Leu 50 60

Ala Phe Arg Gln Pro Ser Ser Ala Phe Ala Ala Phe Val Lys Arg Ala 65 70 75 80

Pro Ser Thr Trp Leu Thr Ala Tyr Val Val Lys Val Phe Ser Leu Ala

Val Asn Leu Ile Ala Ile Asp Ser Gln Val Leu Cys Gly Ala Val Lys 100 105 110 Trp Leu Ile Leu Glu Lys Gln Lys Pro Asp Gly Val Phe Gln Glu Asp

115 120

Ala Pro Val Ile His Gln Glu Met Ile Gly Gly Leu Arg Asn Asn Asn

Glu Lys Asp Met Ala Leu Thr Ala Phe Val Leu Ile Ser Leu Gln Glu 155 150

Ala Lys Asp Ile Cys Glu Glu Gln Val Asn Ser Leu Pro Gly Ser Ile 165 170

Thr Lys Ala Gly Asp Phe Leu Glu Ala Asn Tyr Met Asn Leu Gln Arg

Ser Tyr Thr Val Ala Ile Ala Gly Tyr Ala Leu Ala Gln Met Gly Arg 200

Leu Lys Gly Pro Leu Leu Asn Lys Phe Leu Thr Thr Ala Lys Asp Lys 215

Asn Arg Trp Glu Asp Pro Gly Lys Gln Leu Tyr Asn Val Glu Ala Thr 230 235

Ser Tyr Ala Leu Leu Ala Leu Leu Gln Leu Lys Asp Phe Asp Phe Val 245

Pro Pro Val Val Arg Trp Leu Asn Glu Gln Arg Tyr Tyr Gly Gly 265

Tyr Gly Ser Thr Gln Ala Thr Phe Met Val Phe Gln Ala Leu Ala Gln 275 280

Tyr Gln Lys Asp Ala Pro Asp His Gln Glu Leu Asn Leu Asp Val Ser

Leu Gln Leu Pro Ser Arg

<210> 8

<211> 310

<212> PRT

<213> Homo sapiens

<400> 8

Met Leu Asp Ala Glu Arg Leu Tys His Leu Ile Val Thr Pro Ser Gly 10

Ala Gly Glu Gln Asn Met Ile Gly Met Thr Pro Thr Val Ile Ala Val 20

His Tyr Leu Asp Glu Thr Glu Gln Trp Glu Lys Phe Gly Leu Glu Lys 35 40

Arg Gln Gly Ala Leu Glu Leu Ile Lys Lys Gly Tyr Thr Gln Gln Leu 50 55 Ser Ala Phe Ala Ala Phe Val Lys Arg Ala 65 70 Fro Ser Thr Trp Leu Thr Ala Tyr Val Val Lys Val Phe Ser Leu Ala

Pro Ser Thr Trp Leu Thr Ala Tyr Val Val Lys Val Phe Ser Leu Ala 85 90 95

Val Asn Leu Ile Ala Ile Asp Ser Gln Val Leu Cys Gly Ala Val Lys 100 105 110

Trp Leu Ile Leu Glu Lys Gln Lys Pro Asp Gly Val Phe Gln Glu Asp 115 120 125

Ala Pro Val Ile His Gln Glu Met Ile Gly Gly Leu Arg Asn Asn Asn 130 135 140

Ala Lys Asp Ile Cys Glu Glu Gln Val Arg Ser Leu Pro Gly Ser Ile 165 170 175

Thr Lys Ala Gly Asp Phe Leu Glu Ala Asn Tyr Met Asn Leu Gln Arg 180 185 190

Ser Tyr Thr Val Ala Ile Ala Gly Tyr Ala Leu Ala Gln Met Gly Arg 195 200 205

Leu Lys Gly Pro Leu Leu Asn Lys Phe Leu Thr Thr Ala Lys Asp Lys 210 215 220

Asn Arg Trp Glu Asp Pro Gly Lys Gln Leu Tyr Asn Val Glu Ala Thr 225 230 235 240

Ser Tyr Ala Leu Leu Ala Leu Leu Gln Leu Lys Asp Phe Asp Phe Val 245 250 255

Pro Pro Val Val Arg Trp Leu Asn Glu Gln Arg Tyr Tyr Gly Gly 265 270

Tyr Gly Ser Thr Gln Ala Thr Phe Met Val Phe Gln Ala Leu Ala Gln 275 280 285

Tyr Gln Lys Asp Ala Pro Asp His Gln Glu Leu Asn Leu Asp Val Ser 290 295 300

Leu Gln Leu Pro Ser Arg 305 310

<210> 9 <211> 310 <212> PRT



<213> Homo sapiens

<400> 9

Met Leu Asp Ala Glu Arg Leu Lys His Leu Ile Val Thr Pro Ser Gly
1 5 10 15

Ala Gly Glu Gln Asn Met Ile Gly Met Thr Pro Thr Val Ile Ala Val
20 25 30

His Tyr Leu Asp Glu Thr Glu Gln Trp Glu Lys Phe Gly Leu Glu Lys
35 40 45

Arg Gln Gly Ala Leu Glu Leu Ile Lys Lys Gly Tyr Thr Gln Gln Leu 50 55 60

Ala Phe Arg Gln Pro Ser Ser Ala Phe Ala Ala Phe Val Lys Arg Ala 65 70 75 80

Pro Ser Thr Trp Leu Thr Ala Tyr Val Val Lys Val Phe Ser Leu Ala 85 90 95

Val Asn Leu Ile Ala Ile Asp Ser Gln Val Leu Cys Gly Ala Val Lys
100 105 110

Trp Leu Arg Arg Glu Lys Gln Lys Pro Asp Gly Val Phe Gln Glu Asp 115 120 125

Ala Pro Val Ile His Gln Glu Met Ile Gly Gly Leu Arg Asn Asn Asn 130 135 140

Glu Lys Asp Met Ala Leu Thr Ala Phe Val Leu Ile Ser Leu Gln Glu 145 150 155 160

Ala Lys Asp Ile Cys Glu Glu Gln Val Ala Ser Leu Pro Gly Ser Ile 165 170 175

Thr Lys Ala Gly Asp Phe Leu Glu Ala Asn Tyr Met Asn Leu Gln Arg 180 185 190

Ser Tyr Thr Val Ala Ile Ala Gly Tyr Ala Leu Ala Gln Met Gly Arg 195 200 205

Leu Lys Gly Pro Leu Leu Asn Lys Phe Leu Thr Thr Ala Lys Asp Lys 210 215 220

Asn Arg Trp Giu Asp Pro Giy Lys Gln Leu Tyr Asn Val Glu Ala Thr 225 230 235 240

Ser Tyr Ala Leu Leu Ala Leu Leu Gln Leu Lys Asp Phe Asp Phe Val 245 250 255

Pro Pro Val Val Arg Trp Leu Asn Glu Gln Arg Tyr Tyr Gly Gly 265 270





Tyr 3ly Ser Thr Gln Ala Thr Phe Met Val Phe Gln Ala Leu Ala Gln 275 280 285

Tyr 3ln Lys Asp Ala Pro Asp His Gln Glu Leu Asn Leu Asp Val Ser 290 295 300

Leu 3ln Leu Pro Ser Arg 305 310